

DERWENT-ACC-NO: 1995-393111
DERWENT-WEEK: 200009
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TITLE: Hydrophilically modified poly-isocyanate(s) - used as crosslinkers in dye baths for textiles, as dispersions for textile finishing, and for prodn. of textiles with wash-fast lustre

INVENTOR: BLAUTH, M; FUCHS, H ; HAEBERLE, K ; REICHERT, J ; HUMMERICH, R ; REINCKE, K ; HABERLE, K

PATENT-ASSIGNEE: BASF AG[BADI]

PRIORITY-DATA: 1994DE-4430165 (August 25, 1994) ,
1994DE-4415449 (May 3, 1994)
, 1994DE-4415451 (May 3, 1994)

PATENT-FAMILY:

PUB-NO PAGES	PUB-DATE MAIN-IPC	LANGUAGE
WO 9530045 A2 028	November 9, 1995 D06P 001/54	G
MX 9605282 A1 000	June 1, 1998 C08G 018/28	N/A
DE 4430165 A1 007	February 29, 1996 D06M 013/395	N/A
WO 9530045 A3 000	February 15, 1996 D06P 001/54	N/A
EP 758417 A1 000	February 19, 1997 D06P 001/54	G
JP 09512590 W 037	December 16, 1997 D06P 001/44	N/A
KR 97702946 A 000	June 10, 1997 D06P 001/54	N/A
EP 758417 B1 000	August 18, 1999 D06P 001/54	G
DE 59506645 G 000	September 23, 1999 D06P 001/54	N/A

DESIGNATED-STATES: CN JP KR MX US AT BE CH DE DK ES FR GB

GR IE IT LU MC NL PT S
E AT BE CH DE DK ES FR GB IT LI NL PT SE AT BE CH DE DK ES
FR GB IT LI NL PT SE

CITED-DOCUMENTS: 1.Jnl.Ref; AU 2711377 ; DE 2054885 ; DE
3109978 ; DE 4113160
; DE 4217716 ; EP 212511 ; EP 269972 ; EP 377434 ; EP
445077 ; EP 510438 ; EP
571867 ; FR 2241597 ; JP 62033879 ; US 3660010 ; US 3694301
; US 5306435

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
WO 9530045A2	N/A	1995WO-EP01552
	April 25, 1995	
MX 9605282A1	N/A	1996MX-0005282
	October 31, 1996	
DE 4430165A1	N/A	1994DE-4430165
	August 25, 1994	
WO 9530045A3	N/A	1995WO-EP01552
	April 25, 1995	
EP 758417A1	N/A	1995EP-0918601
	April 25, 1995	
EP 758417A1	N/A	1995WO-EP01552
	April 25, 1995	
EP 758417A1	Based on N/A	WO 9530045
JP 09512590W	N/A	1995JP-0527979
	April 25, 1995	
JP 09512590W	N/A	1995WO-EP01552
	April 25, 1995	
JP 09512590W	Based on N/A	WO 9530045
KR 97702946A	N/A	1995WO-EP01552
	April 25, 1995	
KR 97702946A	N/A	1996KR-0706196
	November 2, 1996	
KR 97702946A	Based on N/A	WO 9530045
EP 758417B1	N/A	1995EP-0918601
	April 25, 1995	
EP 758417B1	N/A	1995WO-EP01552
	April 25, 1995	
EP 758417B1	Based on N/A	WO 9530045
DE 59506645G	N/A	1995DE-0506645

	April 25, 1995	
DE 59506645G	N/A	1995EP-0918601
	April 25, 1995	
DE 59506645G	N/A	1995WO-EP01552
	April 25, 1995	
DE 59506645G	Based on	EP 758417
	N/A	
DE 59506645G	Based on	WO 9530045
	N/A	

INT-CL (IPC): C08G018/28; C08G018/83 ; C08L075/04 ;
D06M013/395 ;
D06M015/564 ; D06M015/568 ; D06P001/44 ; D06P001/52 ;
D06P001/54 ;
D06P001/607

RELATED-ACC-NO: 1995-383593;1995-383594

ABSTRACTED-PUB-NO: EP 758417B

BASIC-ABSTRACT: The use of hydrophilically-modified polyisocyanates (I) for the following applications in the textile industry is claimed:
(i) as crosslinkers
for binders used in aq. pigment dye liquors for dyeing textiles; (ii) in the form of aq. dispersions contg. little or no organic solvent or other emulsifiers, for finishing textile materials; and (iii) for the prodn. of textiles with a wash-fast lustre. Also claimed are: a process for dyeing textiles in aq. pigment dye baths using (I) as crosslinker for the binder, a textile finishing process using aq. dispersions of (I) as above, and a process for the prodn. of textiles with a wash-fast lustre by using (I) as above. Also claimed are: aq. pigment dye baths for the above process, contg. 0.01-10 wt.% (I) in addn. to pigments, binders, water and conventional additives, and aq. dispersions for textile finishing contg. 0.01-15 wt.% (I) with no organic solvent or other emulsifier.

USE - Used for dyeing and finishing textiles.

ADVANTAGE - The use of (I) as crosslinkers gives deep colours with a high resistance to washing and rubbing; the dyed fabric has no smell due to the crosslinker, and there is no risk to health etc. due to formaldehyde emission.

In addn., dispersions of (I) are stable for several hrs. in dye baths.

Finishing prepns. contg. (I) gives high-quality textiles with a soft feel and very low shrinkage after washing; they require no organic solvent or additional emulsifier, no heating and no cleavage of blocking agent.

In application

(iii), the use of (I) gives textiles which do not lose their lustre when washed, without emission of paraffin or formaldehyde during heat treatment

ABSTRACTED-PUB-NO: WO 9530045A

EQUIVALENT-ABSTRACTS: The use of hydrophilically-modified polyisocyanates (I) for the following applications in the textile industry is claimed: (i) as crosslinkers for binders used in aq. pigment dye liquors for dyeing textiles; (ii) in the form of aq. dispersions contg. little or no organic solvent or other emulsifiers, for finishing textile materials; and (iii) for the prodn. of textiles with a wash-fast lustre. Also claimed are: a process for dyeing textiles in aq. pigment dye baths using (I) as crosslinker for the binder, a textile finishing process using aq. dispersions of (I) as above, and a process for the prodn. of textiles with a wash-fast lustre by using (I) as above. Also claimed are: aq. pigment dye baths for the above process, contg. 0.01-10 wt.% (I) in addn. to pigments, binders, water and conventional additives, and aq. dispersions for textile finishing contg. 0.01-15 wt.% (I) with no organic solvent or other emulsifier.

USE - Used for dyeing and finishing textiles.

ADVANTAGE - The use of (I) as crosslinkers gives deep colours with a high resistance to washing and rubbing; the dyed fabric has no smell due to the crosslinker, and there is no risk to health etc. due to formaldehyde emission.
In addn., dispersions of (I) are stable for several hrs. in dye baths.
Finishing prepns. contg. (I) gives high-quality textiles with a soft feel and very low shrinkage after washing; they require no organic solvent or additional emulsifier, no heating and no cleavage of blocking agent.
In application (iii), the use of (I) gives textiles which do not lose their lustre when washed, without emission of paraffin or formaldehyde during heat treatment

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

HYDROPHILIC MODIFIED POLY ISOCYANATE CROSSLINK DYE BATH
TEXTILE DISPERSE
TEXTILE FINISH PRODUCE TEXTILE WASHING FAST LUSTRE

DERWENT-CLASS: A25 A87 F06

CPI-CODES: A08-C09A; A08-D04A; A08-E01; A08-M01A; A11-A01;
A12-S05M; F03-B01;
F03-C04; F03-C05; F03-F17; F03-F32;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

017 ; P1592*R F77 D01 ; M9999 M2073 ; L9999 L2391 ;
L9999 L2073

Polymer Index [1.2]

017 ; P0088*R ; M9999 M2073 ; L9999 L2391 ; L9999 L2073

Polymer Index [1.3]

017 ; ND00 ; ND01 ; Q9999 Q6791 ; K9518 K9483 ; K9687
K9676 ; K9712
K9676 ; N9999 N7090 N7034 N7023 ; N9999 N7147 N7034
N7023 ; Q9999
Q8797 Q8775 ; B9999 B3429 B3418 B3372 ; B9999 B3532
B3372 ; B9999
B5287 B5276 ; B9999 B4499 B4466 ; B9999 B4488 B4466 ;

K9745*R
Polymer Index [1.4]
 017 ; D01 D11 D10 D50 D95 F34 F73 F77 ; A999 A157*R ;
A999 A759
 ; L9999 L2824 ; S9999 S1025 S1014 ; B9999 B3407 B3383
B3372 ; B9999
 B3532 B3372
Polymer Index [1.5]
 017 ; A999 A102 A077
Polymer Index [1.6]
 017 ; A999 A588 A566
Polymer Index [1.7]
 017 ; A999 A215
Polymer Index [2.1]
 017 ; R01852*R G3634 D01 D03 D11 D10 D23 D22 D31 D42
D50 D86 F24
 F29 F26 F34 H0293 P0599 G3623 ; R24078 R01852 G3634
G3623 D01 D03
 D11 D10 D23 D22 D31 D42 D50 D86 F24 F29 F26 F34 H0293
P0599 ; S9999
 S1070*R ; S9999 S1161*R S1070 ; M9999 M2073 ; L9999
L2391 ; L9999
 L2073
Polymer Index [2.2]
 017 ; G3714*R P0599 D01 F70 ; S9999 S1070*R ; S9999
S1161*R S1070
 ; M9999 M2073 ; L9999 L2391 ; L9999 L2073
Polymer Index [2.3]
 017 ; ND00 ; Q9999 Q9132 ; B9999 B4411 B4400 B4240 ;
B9999 B5287
 B5276 ; B9999 B4499 B4466 ; B9999 B4488 B4466 ; B9999
B3827 B3747
 ; B9999 B3758*R B3747 ; N9999 N5787*R N5765 ; B9999
B3429 B3418
 B3372
Polymer Index [2.4]
 017 ; D01 D11 D10 D50 D95 F34 F73 F77 ; A999 A157*R ;
A999 A759
 ; L9999 L2824 ; S9999 S1025 S1014 ; B9999 B3407 B3383
B3372 ; B9999
 B3532 B3372
Polymer Index [3.1]
 017 ; R00351 G1558 D01 D23 D22 D31 D42 D50 D82 F47 ;
R00370 G1558
 D01 D11 D10 D23 D22 D31 D42 D50 D83 F47 ; H0000 ; H0022
H0011 ;
 H0237*R ; P0055 ; P0975 P0964 F34 D01 D10 ; M9999

M2153*R ; M9999
M2200 ; M9999 M2813 ; M9999 M2824 ; L9999 L2391 ; L9999
L2153*R
; L9999 L2824 ; A999 A157*R ; A999 A782 ; S9999 S1025
S1014
Polymer Index [3.2]
017 ; B9999 B5094 B4977 B4740 ; B9999 B3407 B3383 B3372
; B9999
B4499 B4466 ; B9999 B4488 B4466
Polymer Index [3.3]
017 ; R00270 D01 D11 D10 D50 D81 F27 F26 ; H0226

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CPI Secondary Accession Numbers: C1995-169396